

USER GUIDE

BEHIND-THE-EAR (BTE) MODELS:

STANDARD TUBE

THIN TUBE

RECEIVER IN-THE-EAR (RIE)

MINI RIE



ReSound

rediscover hearing

Introduction

Congratulations on the purchase of your new hearing instruments. ReSound's innovative sound technology and design, combined with the customised set-up selected by your hearing care professional, will make hearing a more enjoyable experience. Hearing instruments will enable you to hear sounds that you may not have heard in years because of your hearing loss. Practice and a positive attitude are important in learning to use hearing instruments. Your ReSound instruments have been adjusted according to your individual hearing loss and needs. Some people adjust quickly to wearing hearing instruments in their ears and hearing new sounds; other people may need more time.

Please read this manual carefully in order to wholly benefit from the use of your hearing instruments. With proper care, maintenance, and usage, your hearing instruments will aid you in better communication for many years. Ask your hearing care professional if you have any questions.

ReSound is a registered trade mark of GN ReSound A/S

Intended use

Generic air-conduction hearing instruments are wearable sound-amplifying devices intended to compensate for impaired hearing. The fundamental operating principle of hearing instruments is to receive, amplify, and transfer sound to the ear drum of a hearing impaired person.

Hearing instrument model: _____

Battery size: _____ Tube type: _____ Dome size: _____

Left serial number: _____ Right serial number: _____

CONTENTS

Introduction	2	Programme button (optional)	17
Description of the hearing instruments	6	Stand-by function	19
Getting started	10	Telecoil (optional)	21
On/Off function	10	Tele-loop systems	21
SmartStart	10	Direct audio input (optional)	22
Inserting/Replacing the battery	11	Connecting/Disconnecting audio boots .	22
Low battery indicator	12	Care and maintenance	24
Inserting/removing hearing instruments	12	Daily maintenance	24
Operation of the hearing instrument	16	Cleaning earmoulds	25
Volume control (optional)	16	Cleaning thin tubes and domes	26
		Cleaning receiver tubing and domes	27
		How to apply domes	27
		Replacing the wax filter (receiver in-the-ear models)	29
		General precautions	31
		General warnings	32
		Battery warning Information	34
		Troubleshooting guide	36
		Technical Data	44
		Warranty and repairs	47

Description of the BTE hearing instruments

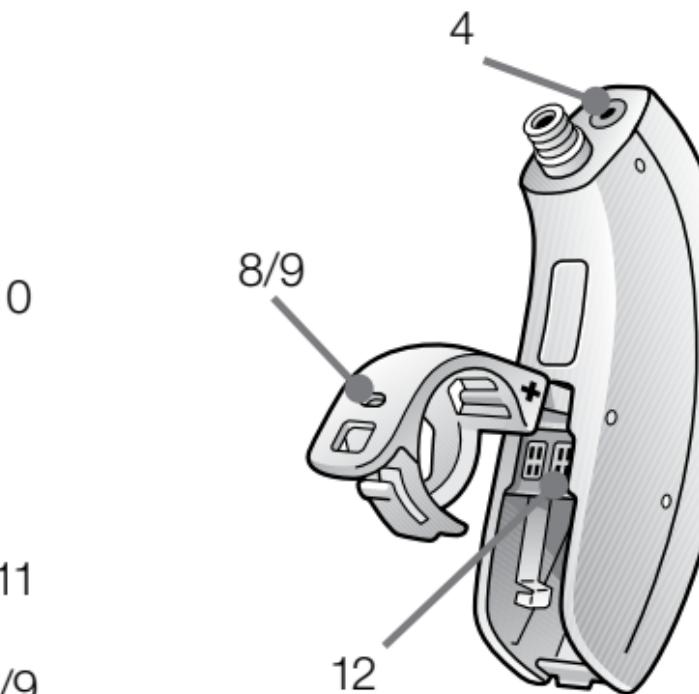
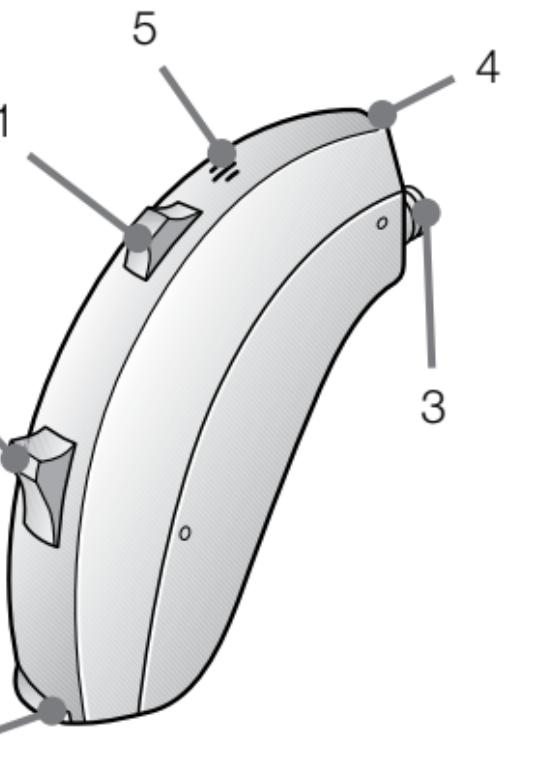
LV61-DI, LV761-DI, LV561-DI

LV71-DI, LV771-DI, LV571-DI

LV71-DVI, LV771-DVI, LV571-DVI

LV81-DVI, LV781-DVI, LV581-DVI

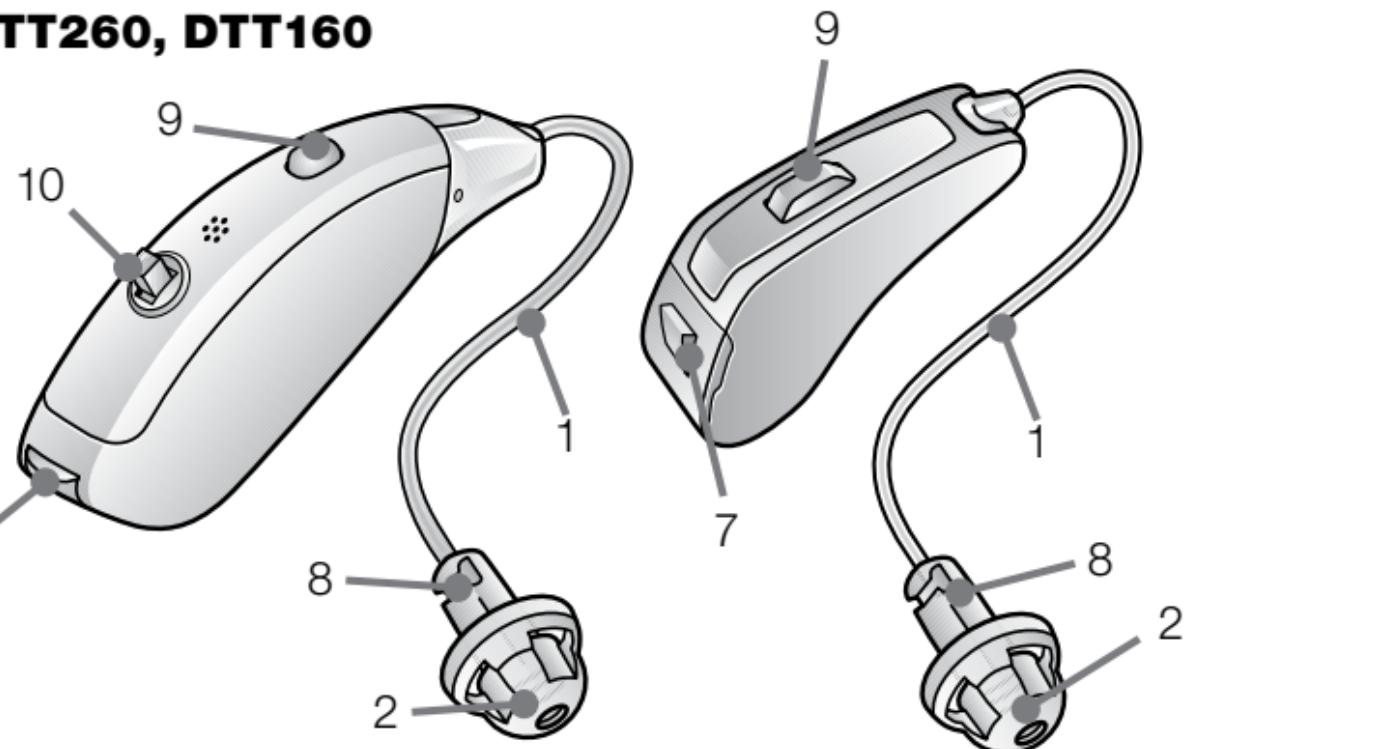
1. Programme button
2. Battery compartment & On/Off switch
3. Sound outlet
4. Front microphone inlet
5. Back microphone inlet
6. Volume control (optional)
7. Direct audio input
8. Left/Right indicator
(Left=Blue/Right=Red)
9. Battery lock (optional)
10. Model
11. Manufacturer
12. Serial number



RIE BTEs - LV70-DVIR, LV770-DVIR, LV570-DVIR

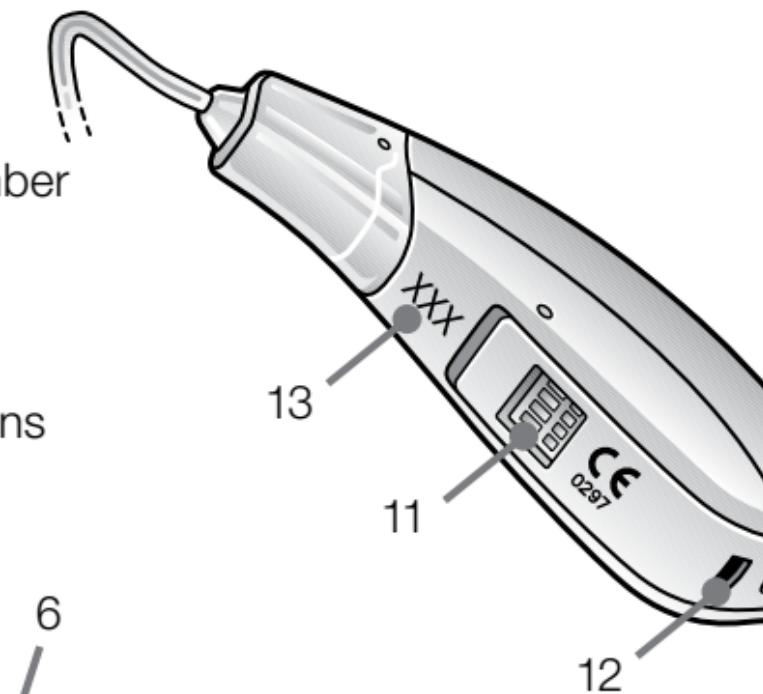
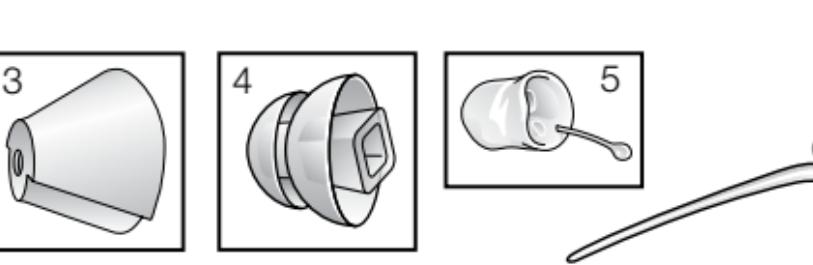
RIE Mini-BTEs* - DTT360, DTT260, DTT160

1. Receiver tube
2. Receiver Open Dome
3. Receiver Tulip Dome
4. Receiver Power Dome
5. RIE mould
6. Sports lock
7. Battery compartment
8. Receiver
9. Programme button
10. Volume Control (optional)



11. Direct audio input
12. Left/right indicator
13. Model, manufacturer and Serial number

* Volume control, telecoil, audio boots, direct audio input, and tele-loop options are not available for mini RIE models.



Getting started

On/Off function

1. When the battery door is closed, the hearing instrument turns on, and the default program will be activated.
2. To turn off the hearing instrument, open the battery door. Many individuals can use their fingernail to pull it open.

Tip: Whenever the hearing instruments are not in use, remember to turn them off to avoid unnecessary battery consumption.

SmartStart

Hearing instruments can be turned on once you have placed them on your ears. If you prefer to turn them on just prior to placing them on your ear, your hearing care professional can activate a function called SmartStart. This function will delay the time in which the hearing instruments turn



on by ten seconds after the battery compartment is closed. This reduces the risk that the hearing instruments will whistle while you put them on.. With SmartStart, a beep will be heard for each second of the delay period.

Inserting/Replacing the battery

1. Open the battery door completely by using your fingernail.
2. Remove the used battery if present. Insert the new battery with the positive side in the correct position. The battery door has a '+' indicator to help determine the correct insertion.
3. Always use Zinc-batteries.
4. Gently close the battery door.

Tip: When the hearing instruments are not in use for an extended period of time, removing the batteries may help prevent corrosion of the battery compartment, and ensure that battery life is not shortened.



Low battery indicator

Your hearing care professional can activate a low battery indicator in your hearing instruments. The hearing instrument will reduce amplification and emit a beep signal if battery power gets too low. This signal will recur every five minutes until the hearing instrument automatically switches off. The low battery indicator can vary slightly, depending on the type of battery used. It is recommended that you keep spare batteries on hand.

Inserting/Removing hearing instruments

Insertion (custom earmoulds)

1. Hold the earmould between your thumb and index finger and position its sound outlet in your ear canal.
2. Slide the earmould all the way into your ear with a gentle, twisting movement.

3. Turn the top part of the earmould gently backwards and forwards so that it tucks behind the fold of skin above your ear canal.
4. Move the earmould up and down and gently press to ensure it is positioned correctly in the ear. Opening and closing your mouth can ease insertion.
5. Make sure the hearing instrument is seated behind the ear.

By experimenting, an easier method may be discovered. With proper insertion, hearing instruments should fit snugly but comfortably. If hearing instruments cause irritation of the ears, contact your hearing care professional. Never attempt to modify the shape of the hearing instrument, earmoulds, or tubing yourself.

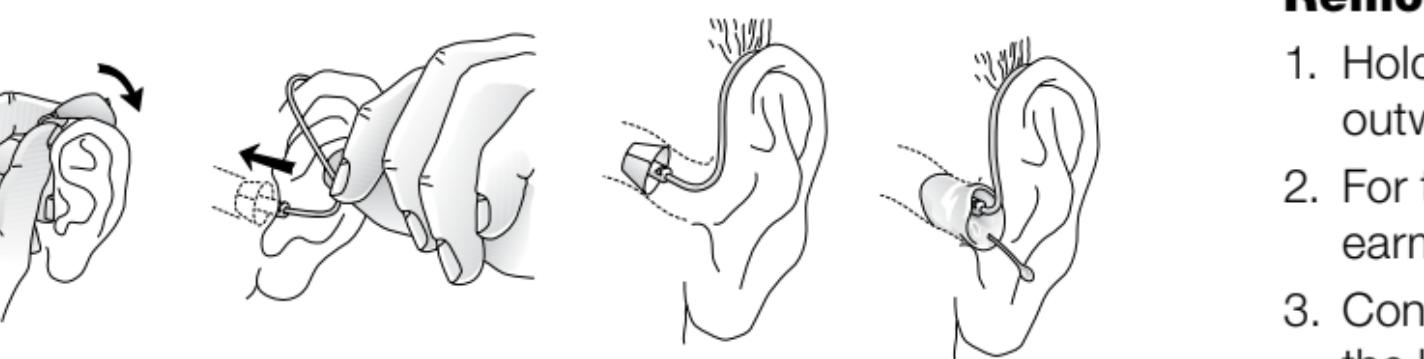
Tip: It may be helpful to pull your ear up and outward with your opposite hand during insertion.



Insertion (domes/custom earmoulds)

1. Hold the thin tube where it bends, and gently push the dome into the ear canal. Push the dome far enough into the ear canal so that the thin tube lies flush with the head.
2. It is important that the tube and the dome fit correctly into your ear.
3. When the dome is place correctly, you should not be able to see the thin tube sticking out when facing a mirror.

Note: You should never attempt to bend or modify the shape of the thin tube.

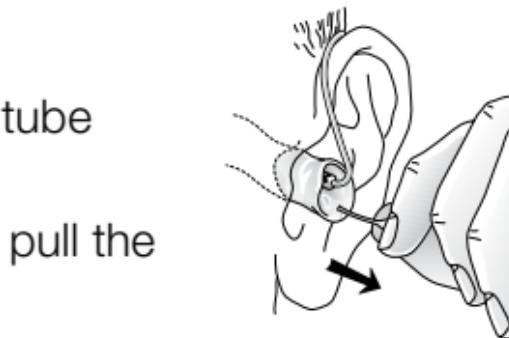


Removal (custom earmolds)

1. Hold a portion of your earmould towards the back of the ear.
2. Pull the earmould outward and simultaneously rotate the earmould forward.
3. Consult your hearing care professional if you have difficulties removing the hearing instrument.

Removal (domes/custom earmoulds)

1. Hold the thin tube with your thumb and forefinger and pull the tube outward.
2. For thin tube custom earmoulds, grasp the removal string and pull the earmould outward.
3. Consult your hearing care professional if you have difficulties removing the hearing instrument.



Operation of the hearing instrument

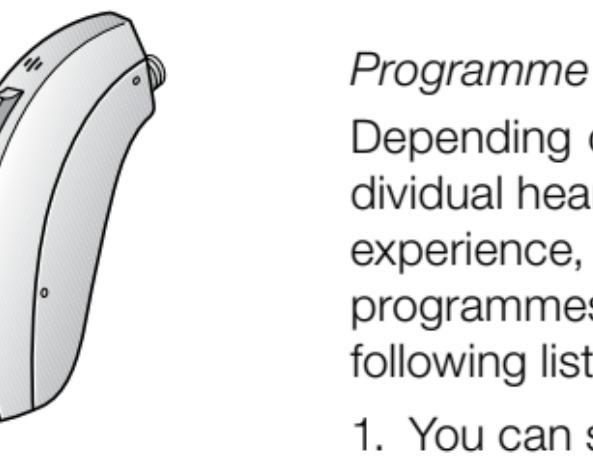
Volume control (optional)

The volume control will allow the volume of hearing instruments to be increased or decreased.

1. To increase the volume, push the volume control up.
2. To decrease the volume, push the volume control down.

When volume is increased or decreased, a beep signal will be heard for each incremental change. When the upper or lower limits of the volume range are reached, a beep signal with a longer duration will be heard.

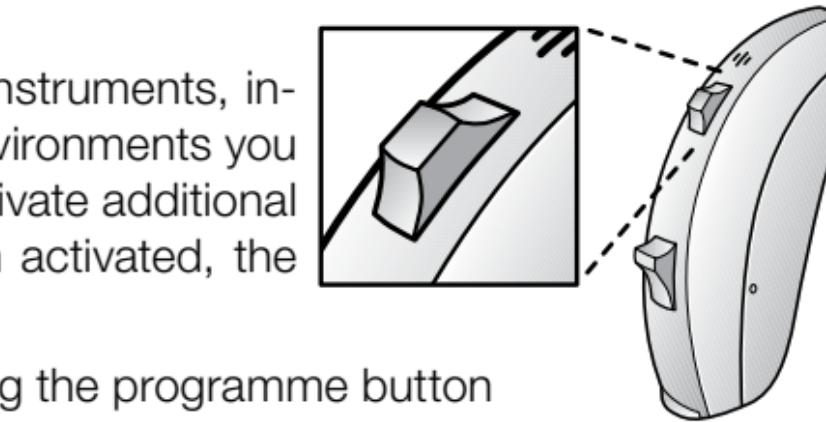
If available on your model, your hearing care professional may have activated a function that enables the hearing instruments to learn how you adjust the volume control settings. With this function, the hearing instruments will learn your volume preferences over time, and will adjust the volume automatically. This can be deactivated or reset by your hearing care professional.



Programme button (optional)

Depending on your experience level with hearing instruments, individual hearing needs, and the type of listening environments you experience, your hearing care professional may activate additional programmes. If additional programmes have been activated, the following list explains how they work.

1. You can switch between programmes by pushing the programme button once.
2. You will then hear one or more beeps. The number of beeps indicates which programme you have selected (one beep = programme one, two beeps = programme two, etc.).
3. When the hearing instruments are turned off and then back on, the hearing instrument always returns to the default setting (programme one).



Programme	Description of when to use
1	
2	
3	
4	

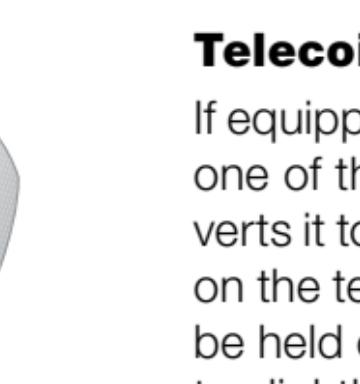
Stand-by function

Some individuals may find that they would like the hearing instruments muted in certain situations while wearing them. Your hearing care professional can activate a stand-by function in your hearing instruments, which causes them to not process or amplify sound. The stand-by function can be accessed by pressing and holding the programme button for five seconds. A series of beeps will be presented prior to activation of the stand-by function. To return to the default programme and de-activate the stand-by function, press the programme button once (this is possible after at least five seconds in the stand-by mode).

Telephone use

Finding the optimal position for holding a telephone may require practice for some individuals, and one or more of the following suggestions may be helpful.

1. Hold the telephone as you would normally.
2. Hold the telephone towards the top of the ear (closer to where the microphones are).
3. If whistling occurs, it may take a few seconds of holding the telephone in the same position before the hearing instrument adapts.
4. Any whistling may also be decreased by holding the telephone slightly away from the ear.
5. Depending on your individual needs, your hearing care professional may activate a programme specifically for telephone use.



Telecoil (optional)

If equipped, a telecoil can be activated by your hearing care professional and accessed through one of the additional programmes. A telecoil picks up a telephone's magnetic signal and converts it to sound. An optional telephone programme may help to improve speech understanding on the telephone. When using a telecoil programme, the receiver of the telephone may need to be held closer to the hearing instrument. The handset of the telephone may need to be moved to slightly different positions in order to find the best reception.

Tele-loop systems

Many places, such as theatres, houses of worship, and schools are equipped with tele-loop systems. When using a telecoil programme with tele-loop systems, sound is picked up directly and may improve speech understanding. If there is no sound from the hearing instruments in a tele-loop system and with a telecoil programme activated, the tele-loop system may not be turned on or is not operating correctly. If a facility is not equipped with a tele-loop system, sitting as close as possible to the front may be helpful.

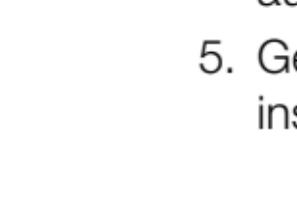
Direct audio input (optional)

Use of direct audio input (DAI), which enables a direct connection of the hearing instruments to items such as television, radio, and remote microphones, may increase speech understanding for some individuals. The sound source is connected to the hearing instruments by a cable or a wireless FM system to the audio boot. This accessory connects to the bottom of the hearing instruments, and once properly clicked into place, the hearing instruments switch to DAI automatically.

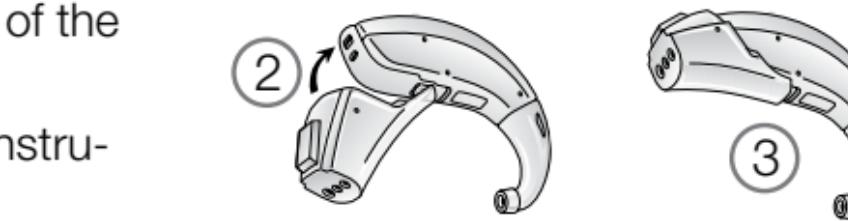
Connecting/Disconnecting audio boots

Connecting audio boots

1. Align the tip of the audio boot with the groove just above the battery compartment and below the model number.

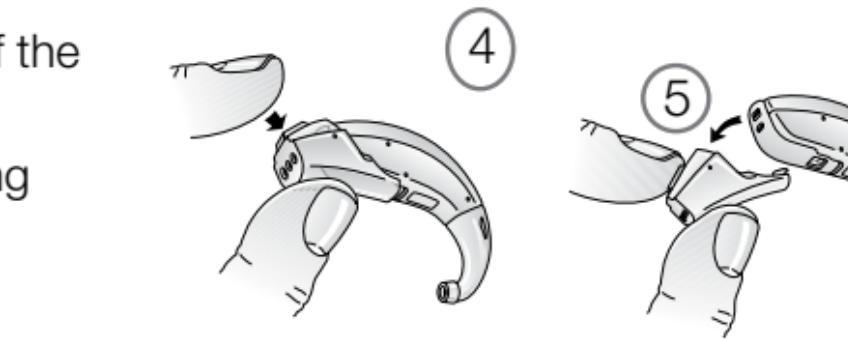


2. Once in place, move the boot in the direction of the battery compartment.
3. Gently click the audio boot onto the hearing instrument.



Disconnecting audio boots

4. Press and hold the button on the front side of the audio booth.
5. Gently remove the audio boot from the hearing instrument.



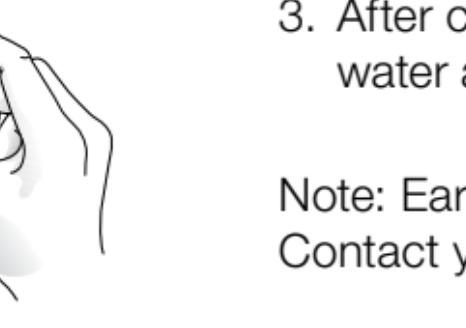
Care and maintenance

Proper handling

1. Never immerse hearing instruments in water or other liquids, as liquids may cause permanent damage to the hearing instruments.
2. Avoid rough handling of hearing instruments or dropping them on hard surfaces or floors.
3. Do not leave hearing instruments in or near direct heat or sunlight, as excessive heat can cause damage or deform the casing.
4. Hair spray, make-up, etc. may damage hearing instruments, and they should be removed prior to the application of cosmetics.

Daily maintenance

It is important to keep your hearing instrument clean and dry. On a daily basis, clean the hearing instruments using a soft cloth or tissue.



In order to avoid damage due to humidity or excessive perspiration, the use of a drying kit is recommended. Some drying kits are electric, and in addition to thoroughly drying out hearing instruments, they help sanitize.



Cleaning earmoulds

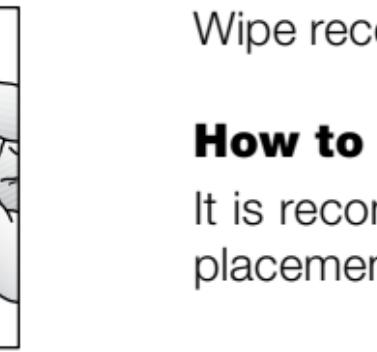
1. Remove the earmould and attached tubing from the hearing instruments prior to cleaning.
2. Clean the earmould using a mild soap, and rinse with lukewarm water.
3. After cleaning, dry earmoulds thoroughly and remove any residual water and debris from the tubing utilising an air bulb and wire loop.



Note: Earmould tubing may become stiff, brittle, or discoloured over time. Contact your hearing care professional regarding tube changes.

Cleaning thin tubes and domes

1. Remove thin tubes from hearing instruments before cleaning by unscrewing them counter clockwise.
2. Wipe down thin tubes and domes with a damp cloth.
3. In order to clear the thin tube of moisture and debris, push the black cleaning rod through the thin tube, beginning at the end opposite the dome.



Note: Thin tube and dome systems should be changed every three months or sooner, should the components become stiff or brittle.

Cleaning receiver tubing and domes

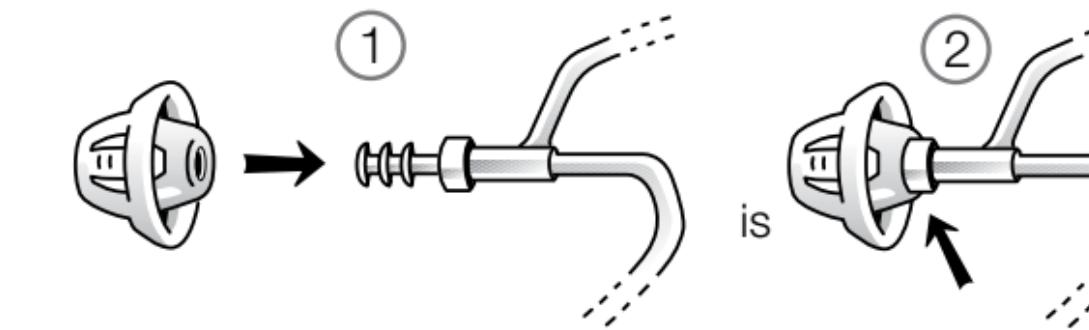
Wipe receiver tubes down with a damp cloth. Do not try to remove.

How to apply domes

It is recommended that your hearing care professional change domes, as incorrect dome replacement could result in injury.

Standard domes

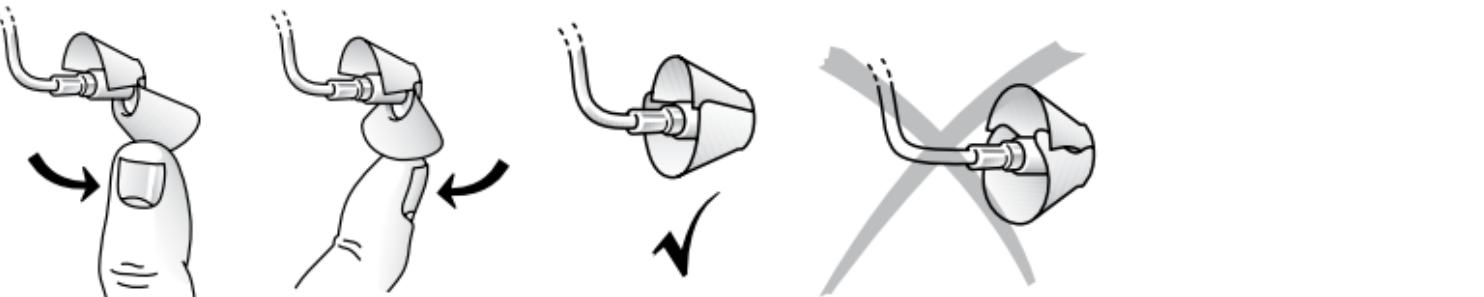
1. Push the new dome over the flanges on the thin tube.
2. Make sure that the new dome properly and securely mounted.



Tulip domes

Tulip domes are mounted in a similar manner to standard domes, but a few extra steps are required. Tulip domes consist of two “petals”. It is important to note that the largest petal is the outermost petal. To ensure this:

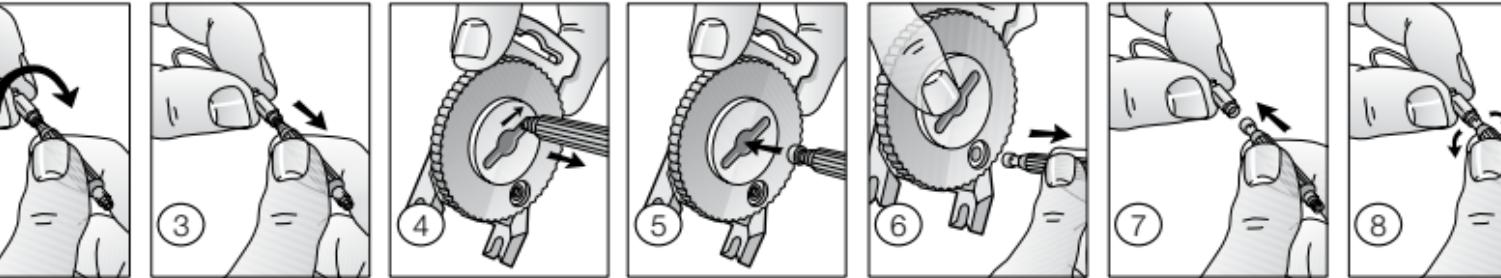
1. Push the largest petal away from the thin tube using a finger. This bends the petal forward.
2. Then push the largest “petal” back, and it will be placed on top of the smaller petal.



Replacing the wax filter (receiver in-the-ear models)

RIE models have two types of wax filters that protect against wax and moisture. The first wax guard is part of the domes. The second wax guard is placed directly on top of the receiver. These filters come in blue and red colors to further help identify left from right hearing instruments (left=blue; red=right). It is recommended that these are changed as needed.

To change these filters, the following steps are needed:



1. Remove and discard the used dome, and brush the receiver area with the receiver pointed down.

2. Insert the threaded end of the HF3 tool into the used wax filter, and gently rotate clockwise.
3. Gently pull until the used filter is removed.
4. Discard the used filter in the slot located in the HF3 filter kit by pressing it into the center, sliding it to one end of the slot, and pull until the filter is discarded.
5. Flip the HF3 filter tool, locate a new filter in the dial, and press the tip of the tool into the center of the dial.
6. Gently pull the new filter out of the dial.
7. Align the new filter to the receiver.
8. Press the new filter into the opening, and simultaneously pull and rock back and forth until the new receiver is in place.

Tip: Pressing on the new filter with the flat side of the HF3 filter tool can give extra insurance that the filter is correctly in place.

General precautions

1. Do not leave hearing instruments in the sun, near an open fire, or in a hot, parked car.
2. Do not wear hearing instruments while showering, swimming, in heavy rain, or in a moist atmosphere such as a steam bath or sauna.
3. Should the hearing instrument become moist, remove the battery and place the hearing instrument in a closed container with a drying agent. Your hearing care professional can provide options for drying containers or kits.
4. Remove the hearing instruments when applying items such as cosmetics, perfume, after-shave, hair spray, and suntan lotion.

General warnings

1. Consult a hearing care professional if you discover a foreign object in your ear canal, if you experience skin irritation, or if excessive ear wax accumulates with the use of the hearing instrument.
2. Different types of radiation, from e.g. NMR, MRI, or CT scanners, may damage hearing instruments. It is recommended not to wear hearing instruments during these or other similar procedures. Other types of radiation, such as burglar alarms, room surveillance systems, radio equipment, mobile telephones, contain less energy and will not damage hearing instruments. However, they have the potential to momentarily affect the sound quality or temporarily create strange sounds from hearing instruments.
3. Do not wear hearing instruments in mines, oil fields, or other explosive areas unless those areas are certified for hearing instrument use.
4. Do not allow others to use your hearing instruments. This may cause damage to the hearing instruments or to the hearing of the other individual.
5. Due to chocking hazards, hearing instrument usage by children or mentally challenged individuals should be supervised at all times.
6. Hearing instruments should be used only as prescribed by your hearing care professional. Incorrect use may result in hearing loss.
7. Warning to hearing care professionals: Special care should be exercised in selecting and fitting hearing instruments with maximum sound pressure level that exceeds 132dB SPL with an IEC 50711:9181 occluded ear simulator. There may be a risk of impairment of the remaining hearing.

Battery warning information

1. Do not put batteries in your mouth, as they can be harmful if swallowed. If swallowed, seek medical help immediately.
2. Keep batteries away from children and mentally challenged persons.

TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	POSSIBLE REMEDY
No sound	<ul style="list-style-type: none">• Not turned on• Dead battery• Battery door will not close• Blocked earmould or tube• Blocked wax filter	<ul style="list-style-type: none">• Turn on by closing the battery door• Replace battery• Insert battery properly• Clean earmould or tube• Replace wax filter or consult your hearing care professional

TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	POSSIBLE REMEDY
Not loud enough	<ul style="list-style-type: none">• Incorrect earmould placement• Blocked earmould or dome• Blocked sound outlet filter• Change in hearing sensitivity• Excessive ear wax• Volume set too low	<ul style="list-style-type: none">• Reinsert earmould• Clean earmould, replace dome, replace filter• Change filter or consult your hearing care professional• Consult your hearing care professional• Consult your physician• Increase the volume control if available or consult your hearing care professional

TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	POSSIBLE REMEDY
Excessive whistling / feedback	<ul style="list-style-type: none">• Incorrect earmould placement• Incorrect dome placement• Excessive ear wax• Feedback control may need adjustment• Earmould tubing worn or damaged• Thin tube connection loose• Hearing instrument settings not optimal	<ul style="list-style-type: none">• Re-insert earmould carefully• Re-insert dome• Consult your hearing care professional• Consult your hearing care professional• Consult your hearing care professional• Change thin tube or consult your hearing care professional• Consult your hearing care professional

TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	POSSIBLE REMEDY
Sound distorted / not clear	<ul style="list-style-type: none">• Weak battery• Improper earmould or dome fit• Hearing instrument damaged• Hearing instrument settings not optimal	<ul style="list-style-type: none">• Replace battery• Consult your hearing care professional• Consult your hearing care professional• Consult your hearing care professional

*If there are any other problems not mentioned in this guide,
please contact your hearing care professional.*

TECHNICAL DATA

Hearing Instrument Model	Maximum output (2ccCoupler / IEC 60118-7)
Standard tube LV61-DI, LV761-DI, LV561-DI	123dB SPL (typical)
LV71-DI, LV761-DI, LV561-DI	126dB SPL (typical)
LV71-DVI, LV771-DVI, LV571-DVI	126dB SPL (typical)
LV81-DI, LV781-DI, LV581-DI	133dB SPL (typical)
Thin tube LV61-DI, LV761-DI, LV561-DI	123dB SPL (typical)
LV71-DI, LV771-DI, LV571-DI	129dB SPL (typical)
LV71-DVI, LV771-DVI, LV571-DVI	129dB SPL (typical)

TECHNICAL DATA

Hearing Instrument Model	Maximum output (2ccCoupler / IEC 60118-7)
RIE LV70-DVIR, LV770-DVIR, LV570-DVIR – Low power (LP), open	107dB SPL (typical)
LV70-DVIR, LV770-D, LV570-D – LP	108dB SPL (typical)
LV70-DVIR, LV770-D, LV570-D – High power (HP), open	118dB SPL (typical)
LV70-DVIR, LV770-D, LV570-D – HP	119dB SPL (typical)

TECHNICAL DATA

Hearing Instrument Model	Maximum output (2ccCoupler / IEC 60118-7)
Mini RIE	
DTT360, DTT260, DTT160 – LP, open	108dB SPL (typical)
DTT360, DTT260, DTT160 – LP	108dB SPL (typical)
DTT360, DTT260, DTT160 – Normal power (NP), open	115dB SPL (typical)
DTT360, DTT260, DTT160 – NP	115dB SPL (typical)
DTT360, DTT260, DTT160 – HP, open	117dB SPL (typical)
DTT360, DTT260, DTT160 – HP	119dB SPL (typical)

Warranty and repairs

ReSound grants a comprehensive warranty on hearing instruments from the original date of purchase. Hearing instruments will be repaired or replaced at the discretion of Resound when examination of the hearing instruments proves the existence of any defects in workmanship or materials.

The warranty period of hearing instruments is designated on your warranty card, which is provided by your hearing care professional.

ReSound hearing instruments that malfunction must be repaired by a qualified technician. Do not attempt to open the case of hearing instruments, as this will invalidate the warranty. For hearing instruments that require service, please contact your hearing care professional for assistance.



Please ask your local hearing care professional
concerning disposal of your hearing instrument

Worldwide Headquarters
GN ReSound A/S
Lautrupbjerg 7
DK-2750 Ballerup, Denmark
Tel.: +45 45 75 11 11
Fax: +45 45 75 11 19
www.resound.com

United Kingdom
GN ReSound Ltd.
Kirtlington Business Centre
Portway
Kirtlington
Oxon OX5 3JA
Tel.: +44 1869 352 800
Fax: +44 1869 343 466
www.gnresound.co.uk

Australia
GN ReSound Pty. Ltd.
Unit R1 Regents Park Estate
391 Park Road
Regents Park NSW 2143
Tel.: (free) 1800 658 955
Fax: +61 2 9743 7472
www.gnresound.com.au

New Zealand
GN ReSound (NZ) Ltd.
12 Parkway Drive
Mairangi Bay
Auckland
Tel.: (free) 0800 900 126
Fax: (free) 0800 007 695
www.gnresound.co.nz



Any issues relating to the EU Medical Device
Directive 93/42/EEC should be directed to
0297 GN ReSound A/S.

ReSound

rediscover hearing